

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-248077

(43)Date of publication of application : 27.09.1996

(51)Int.Cl.

G01R 27/28  
G01H 17/00

(21)Application number : 07-048042

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(22)Date of filing : 08.03.1995

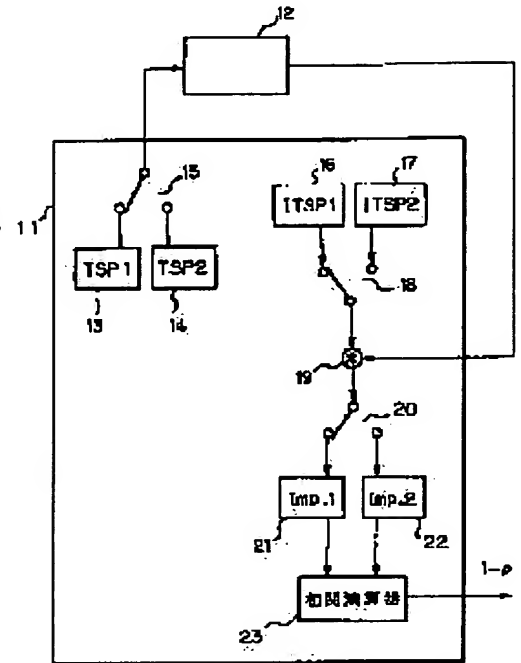
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## (54) IMPULSE RESPONSE MEASURING METHOD

### (57)Abstract:

**PURPOSE:** To detect an optimum measuring signal level and to obtain the measured result by a minimum error by measuring the impulse response of a system to be measured by using a time stretching pulse(TSP) signals having different pulse widths.

**CONSTITUTION:** First, switches 15, 18, 20 are respectively connected to TSP 1, an inverted TSP (ITSP) 1 and an impulse response storage unit (Imp.) 1. Then, a TSP signal is generated from the tsp 2, and input to a system 12 to be measured. The output of the system 12 and an ITSP signal to be output from the ITSP 1 are calculated by a convolution arithmetic unit 19, and the obtained impulse response measured result is stored in the Imp. 1. Then, the switches 15, 18, 20 are respectively connected to the TSP 2, ITSP 2 and Imp. 2, and similar measurement is conducted. The TSP 2 generates the TSP signal having different pulse width. The measured result is stored in the Imp. 2. Eventually, twice measured results are input from the imps. 1, 2 to a correlation calculator 23, and the value of the overall error is calculated.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]